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## IN THE CLAIMS

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Please amend the claims as follows:

(Currently Amended) A system comprising:

an under-run forecasting mechanism to estimate a time at which a supply of received data packets received from a server on a network will be exhausted to generate an under-run predicted time:

a statistics monitoring mechanism to measure fluctuations in arrival of data packets, from the network, to the supply of received data packets; and

a playback queuing mechanism to first process the received data packets from the network to provide the received data packets to the under-run forecasting mechanism and to build latency in the supply of received data packets based on the under-run predicted time and the measured fluctuations in arrival of data packets, wherein the under-run forecasting mechanism, the statistics monitoring mechanism, and the playback queuing mechanism are separate separated from the server by the network and are eo located located in a client such that generation of the under-run predicted time, measurement of the fluctuations, and building of the latency are based on received data packets from the network at the co-location in the client.

- 2. (Currently Amended) The system of claim 1, wherein the system is adapted to send data packets from the playback queuing mechanism to a elient on a network to play data from the data packets a playback device.
- 3. (Cancelled)
- 4. (Previously Presented) The system of claim 1, wherein each received data packet in the supply of received data packets includes data representing a part of a multimedia stream.
- 5. (Previously Presented) The system of claim 1, wherein each received data packet in the supply of received data packets includes data representing a part of a video stream.

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6. (Original) The system of claim 1, wherein the under-run forecasting mechanism is adapted to

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update the under-run predicted time.

7. (Original) The system of claim 1, wherein the under-run forecasting mechanism is adapted to

update the under-run predicted time based on a calculation of a time duration for a playback

device to complete playing data provided to the playback device.

8. (Original) The system of claim 1, wherein the playback queuing mechanism includes a

switch to select a latency-building mode or a streaming mode.

9. (Original) The system of claim 1, wherein the system further includes decision-based logic to

determine a target latency.

10. (Original) The system of claim 1, wherein the system further includes decision-based logic

to determine a target latency based on a time difference between an updated under-run predicted

time and an absolute system time.

11. (Original) The system of claim 1, wherein the system further includes a playback device to

play data from the data packets.

12. (Currently Amended) A system comprising:

a processor:

a bus:

a memory coupled to the processor by the bus, the memory, at least temporarily, to store

data from a machine-readable medium having processor instructions stored thereon for execution

by the processor to perform a method comprising:

generating an under-run predicted time for a supply of received data packets from

a server on a network:

measuring fluctuations in arrival of data packets, from the network, to the supply

of received data packets;

building latency in the supply of received data packets based on the under-run predicted time and the measured fluctuations in arrival of data packets; and a connection to receive the received data packets from the network, wherein the system is a client capable of coupling to the network such that the client is separate separated from the server by the network such that generation of the under-run predicted time, measurement of the fluctuations, and building of the latency are based on received data packets from the network at-a eo-location in the client.

- 13. (Currently Amended) The system of claim 12, wherein the system is adapted to send the data packets to a client on a network to play data from the data packets playback device.
- 14. (Cancelled)
- 15. (Previously Presented) The system of claim 12, wherein each received data packet in the supply of received data packets includes data representing a part of a multimedia stream.
- 16. (Previously Presented) The system of claim 12, wherein each data packet in the supply of received data packets includes data representing a part of a video stream.
- (Original) The system of claim 12, wherein the system is a computer.
- 18. (Previously Presented) The system of claim 12, wherein the system includes a playback device to play data from the received data packets.
- 19. (Currently Amended) A method comprising:

generating an under-run predicted time for a supply of received data packets received from a server on a network;

measuring fluctuations in arrival of data packets, from the network, to the supply of received data packets;

building latency in the supply of received data packets based on the under-run predicted

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time and the measured fluctuations in arrival of data packets, wherein generating the under-run predicted time mechanism, measuring the fluctuations, and building the latency are performed at a common location in a client on the network separate from the server and are based on received data packets from the network at the common location client.

- 20. (Previously Presented) The method of claim 19, wherein the method includes building latency in the supply of received data packets if the supply of received data packets is less than a target latency.
- 21. (Previously Presented) The method of claim 19, wherein the method further includes imposing no queuing if it is determined that building latency in the supply of received data packets requires queuing data at a level more than a threshold amount to maintain a stable stream of data.
- 22. (Original) The method of claim 19, wherein the method further includes updating the underrun predicted time based on a comparison of the under-run predicted time with a current time to provide a running under-run predicted time.
- 23. (Original) The method of claim 22, wherein the method further includes generating a target latency as twice a standard deviation of time differences between the running under-run predicted time and an absolute system time.
- 24. (Original) The method of claim 22, wherein updating the under-run predicted time based on a comparison of the under-run predicted time with a current time includes adding an amount time for playing back a supply of data packets to the under-run predicted time, if the under-run predicted time is greater than or equal to the current time.
- 25. (Original) The method of claim 19, wherein the method further includes flushing stale data caught in the building of latency.

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26. (Previously Presented) The method of claim 19, wherein measuring fluctuations in arrival of data packets, from the network, to the supply of received data packets includes monitoring a characteristic of previously predicted under-run times.

- 27. (Original) The method of claim 19, wherein the method further includes operating in a streaming mode if no under-run is present or if an under-run is of short duration.
- 28. (Currently Amended) The method of claim 19, wherein the method further includes sending data from the received data packets to a elient on a network to play the data from the received data packets playback device.
- 29. (Cancelled)
- 30. (Previously Presented) The method of claim 19, wherein measuring fluctuations in arrival of data packets to the supply of received data packets includes the method includes tallying packet arrival time characteristics that result from fluctuations in an entire packet delivery system and histogramming time differences between the under-run predicted time and an absolute time.
- 31. (Previously Presented) The method of claim 19, wherein the method further includes playing data from the data packets.
- 32. (Original) The method of claim 19, wherein the method further includes performing the method for multimedia data packets.
- 33. (Currently Amended) A machine-readable medium having processor instructions stored thereon for execution by a processor to perform a method comprising:

generating an under-run predicted time for a received supply of data packets received from a server on a network:

measuring fluctuations in arrival of data packets, from the network, to the supply of

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received data packets;

building latency in the supply of received data packets based on the under-run predicted time and the measured fluctuations in arrival of data packets, wherein generating the under-run predicted time mechanism, measuring the fluctuations, and building the latency are performed at a common location in a client on the network separate from the server and are based on received data packets from the network at the common location in the client.

- 34. (Previously Presented) The machine-readable medium of claim 33, wherein the processor instructions stored thereon for execution by a processor further includes instructions to perform the method further including building latency in the supply of received data packets if the supply of received data packets is less than a target latency.
- 35. (Previously Presented) The machine-readable medium of claim 33, wherein the processor instructions stored thereon for execution by a processor further includes instructions to perform the method further including imposing no queuing if it is determined that building latency in the supply of received data packets requires queuing data at a level more than a threshold amount to maintain a stable stream of data.
- 36. (Original) The machine-readable medium of claim 33, wherein the processor instructions stored thereon for execution by a processor further includes instructions to perform the method further including updating the under-run predicted time based on a comparison of the under-run predicted time with a current time to provide a running under-run predicted time.
- 37. (Previously Presented) The machine-readable medium of claim 36, wherein updating the under-run predicted time based on a comparison of the under-run predicted time with a current time includes adding an amount time to the under-run predicted time for playing back the supply of received data packets, if the under-run predicted time is greater than or equal to the current time.

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- 38. (Currently Amended) The machine-readable medium of claim 33, wherein the processor instructions stored thereon for execution by a processor further includes instructions to perform the method further including sending data packets to a playback device.
- 39. (Cancelled)
- 40. (Previously Presented) The machine-readable medium of claim 33, wherein the processor instructions stored thereon for execution by a processor further includes instructions to perform the method further including playing data from the received data packets.
- 41. (Original) The machine-readable medium of claim 33, wherein the processor instructions stored thereon for execution by a processor further includes instructions to perform the method further including performing the method for multimedia data packets.